

Panasonic 1080P HD-SDI CAMERA

C-DG-IR9970HD



- 1/3" 2.1Megapixel Panasonic CMOS
- Mode 1080P(1920 X 1080)
- ACCE(Adaptive Color & Contrast Enhancement)
- WDR/BLC/HLC/D-ZOOM/DNR

WARRANTY

Warranty Period: 2 years			
Product	GIMBAL DOME CAMERA	Model	C-DG-IR9970HD
Purchase		Serial No.	
Address		Customer	
Dealer		Representative	

► Please contact purchasing office or service center when you find any damage or problem with this product.

► The warranty period is 2 years from Invoice date.

◆A/S without cost◆

Within Warranty Period		Warranty details	
		Within warranty	After Warranty
When damages occurred in normal working environment	Repair or Replace	Product	
		A/S without cost	
		Product exchange	

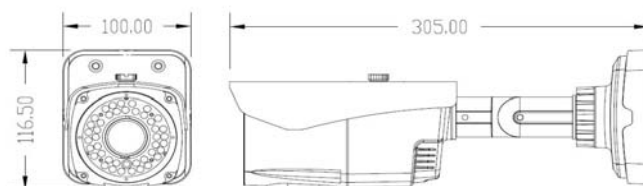
◆A/S with cost◆

Damage by customer's negligence		Warranty details
chargeable case even within warranty	1. Damage by customer's careless handling 2. Damage by natural disaster (Fire, Flood, etc.) 3. Damage by not keeping the cautions and instructions on manual 4. Damage by not using appointed power(frequency, voltage) or adapter. 5. Damage by disassemble or cleaning by customer 6. Damage by repairment by a person excepting the dealer	A/S with cost

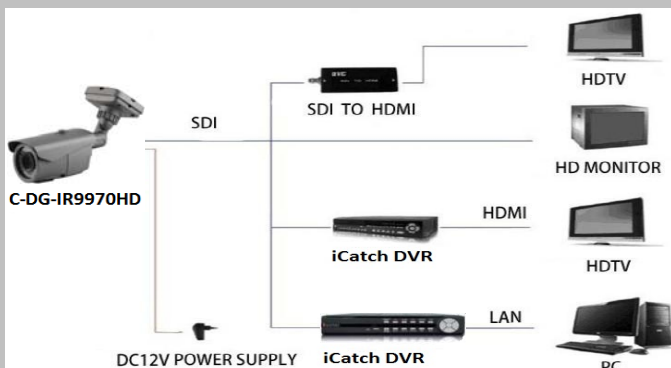
SPECIFICATION

DESCRIPTION	PAL
Imaging Device	1/3" 2.1Megapixel Panasonic CMOS
Effective Pixels	1080P(1920 X 1080)
Scanning System	Progressive Scan
Synchronization	Internal, Negative Sync
Horizontal Resolution	1080P(1920 X 1080)
Video Output	HD-SDI /1.0 Vp-p (75Ω, Composite)
S/N Ratio	More than 50dB (AGC Off)
Min. Illumination	1.0Lux(Color),0.5Lux(BW)
IRIS Adjustment	Auto
LENS	2.8~12 Manual Zoom Lens
Electronic Shutter	Auto/FLK/1/25,30sec ~ 1/60000sec MANUAL(X2~X512)
IR LEDs	72Pcs LEDs
Gama Characteristic	0.45
IR Distance	60 Meters
Auto Gain Control	Auto
Day&Night	Auto
Privacy Masking	On / Off (Programmable)
3D-DNR	LEVEL(0~100)Adjustment
Digital Zoom	1.0X~8.0X
SENS-UP	OFF/ X2-X8
MOTION	ON/OFF
Digital Effect	OFF / V-FLIP / MIRROR / ROTATE
Dimension (mm)	131x93(H)
Weight(g)	800
Input Voltage	DC 12V(±10%)
Power Consumption	IR OFF : 210mA / IR ON : 550mA(±10%)
Operating Temp/Hum.	-10°C~ +50°C / 30% ~ 80% RH
Storage Temp. / Hum.	-20°C ~ +60°C / 20% ~ 90% RH

DIMENSION



CONNECTING OF CAMERA



1. No Picture after providing power. May be the power supply voltage abnormality, please check the power supply voltage and pole whether exactitude. Please check all the connecting cable and monitors whether be connected correctly or not.

2. The picture level direction have flowing interference ripples. May be caused by the power supply AC ripples, it need filter the wave of the power supply. Check the monitor and peripheral equipments used

3. The picture background color changes continuously. The fluorescent lamp's electromagnetic field cause color roll. This is proper phenomenon of the cameras. Reduce the fluorescent lamp numbers or increase the distance between the camera and the fluorescent lamps can improve it. Use power supply external sync. camera can solve it.

4. The picture smear too mass . The power supply's voltage unstable. Connecting cables not connect correctly or have high impedance.

CAUTION IN INSTALLATION

- Do not install the camera opposite of the sun so that it be avoided direct light.
- Be careful not to drop this camera and not to impact on it. CCTV camera is a precision device.
- Do not pull the cable. If you pull the cable, it will make electrical problems such as disconnection.
- The camera should be worked within a range of the allowable temperature that refers to specification.
- Do not try to fix even if the camera does not work.
- Installation this camera at safety place where is no water, If the camera has some problems with water accidentally. You have to contact A/S centre that sold the camera to you.
- If you would like to relocate the already installed product, be sure to turn off the power and then move or reinstall it.
- Please contact the nearest A/S centre if you find out any Problems. Please do not ignore any small problems they can become a big problem.

Feature Summary & OSD Setting

* Sensor (CMOS)

1/3" 2.1Megapixel Panasonic CMOS

* Auto Gain Control (AGC)

Built-in auto gain control (AGC) circuit. The color camera can get high definition picture in low Lux condition.

* Scanning Mode

NTSC or PAL mode.

* OSD SETTING:

OSD MENU				
LENS	■ELC	■ALC		
EXPOSURE	■BRIGHTNESS	■AGC	■SENS-UP	■AGC
BACKLIGHT	■HLC	■BLC	■WDR	
WHITE BAL	■AUTO	■AUTOext	■PRESET	■MANUAL
DNR	■LOW	■MIDDLE	■HIGH	
IMAGE	■SHARPNESS	■GAMMA	■COLOR GAIN	■MIRROR
	■FLIP	■D-ZOOM	■AEC	■DEFOG
	■SHADING	■PRIVACY		
MOTION	■SENSITIVITY	■WINDOW	■DET H-POS	■DET V-POS
	■DET H-SIZE	■TONE	■MOTION OSD	■ALARM
	■DET V-SIZE			
SYSTEM	■COM.	■IMAGE	■OUTPUT	■COLOR
	■FRAME RATE	■RANGE	■MODE	■SPACE
		■CVBS	■LANGUAGE	■COLORBAR
EXIT				

CAUTION



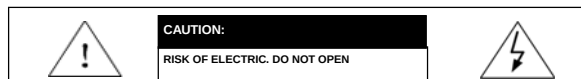
To prevent fire or shock hazarded. Do not expose the unit rain to rain or moisture.



The symbol is intended to alert the user to the presence of important important operating and maintenance (servicing) Instructions in the literature accompanying the appliance.



The symbol is intended to alert the user to the presence of uninsulated 'dangerous voltage' within the product's enclosure that may be of sufficient Magnitude to constitute a risk of electric shock to persons.



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER OR BACK NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

CAUTION: To prevent electric shocks and risk of fire hazards, do NOT use other than specified power source.



Note:

- Please note the camera's operating temperature and its using environment requirement. Avoid using the camera at too high or too low temperatures. The operating temperature is -30~+60°C. (Recommendatory operating temperature is -10~+50°C.)
- Never make the camera face the sun or bright object. Otherwise, it will